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May 8, 2015

#### **VIA ELECTRONIC FILING**

The Honorable Jocelyn G. Boyd Chief Clerk / Administrator Public Service Commission of South Carolina 101 Executive Center Drive, Suite 100 Columbia, South Carolina 29211

RE: Application of Duke Energy Carolinas, LLC to Establish a Distributed

Energy Resource Program Docket No. 2015-55-E

Dear Mrs. Boyd:

Enclosed for filing on behalf of Duke Energy Carolinas, LLC ("Duke Energy Carolinas" or "the Company"), please find corrected versions of the Rebuttal Testimony of Emily O. Felt and Jose I. Merino, originally filed on May 7, 2015, in the above-referenced matter. The Rebuttal Testimony of Ms. Felt and Mr. Merino filed yesterday with the Commission on behalf of the Company contained formatting and scanning errors that require correction for the record. Please allow the corrected versions of their testimony to replace the prior versions filed in this docket.

Thank you for your attention to this matter and please let us know if you have any questions.

Sincerely

Charles A. Castle

CAC/gf Enclosures

Cc: All parties of record

### STATE OF SOUTH CAROLINA BEFORE THE PUBLIC SERVICE COMMISSION DOCKET NO. 2015-55-E

Application of Duke Energy Carolinas, LLC	)	
to Establish A Distributed Energy Resource	)	CERTIFICATE OF SERVICE
Program	)	

I hereby certify that the corrected Rebuttal Testimony of Emily O. Felt and Jose I. Merino, filed on behalf of Duke Energy Carolinas, LLC, have been served by electronic mail (email), hand delivery or by depositing a copy in United States Mail, first class postage prepaid, properly addressed to the parties of record.

This the 8<sup>th</sup> day of May, 2015.

Charles A. Castle

Associate General Counsel

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# BEFORE THE PUBLIC SERVICE COMMISSION OF SOUTH CAROLINA

### **DOCKET NO. 2015-55-E**

In the Matter of	)
Application of Duke Energy Carolinas, LLC to Establish a Distributed Energy Resource Program	) REBUTTAL TESTIMONY ) OF EMILY O. FELT ) ON BEHALF OF ) DUKE ENERGY CAROLINAS, LLC )
	)

O. PLEASE STATE YOUR NAME AND BUSINESS ADDRE	DRESS	SS AD	BUSINESS	AND	NAME	<b>YOUR</b>	STATE	PLEASE	O.	1
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- 2 A. My name is Emily O. Felt. My business address is 400 South Tryon Street, Charlotte,
- 3 North Carolina.
- 4 O. BY WHOM ARE YOU EMPLOYED AND IN WHAT CAPACITY?
- 5 A. I am Manager of Strategy and Policy in the Distributed Energy Resources group at Duke
- 6 Energy Corporation.
- 7 O. DID YOU PREVIOUSLY CAUSE DIRECT TESTIMONY TO BE FILED IN THIS
- 8 DOCKET?
- 9 A. Yes.
- 10 O. WHAT IS THE PURPOSE OF YOUR REBUTTAL TESTIMONY?
- 11 A. The purpose of my rebuttal testimony is to respond to certain aspects of the testimony of the
- 12 Coastal Conservation League ("CCL") and Southern Alliance for Clean Energy ("SACE")
- witness John Wilson, CCL witness Hamilton Davis and The Alliance for Solar Choice
- 14 ("TASC") witness Justin Barnes as it pertains to the Duke Energy Carolinas, LLC's ("DEC"
- or "the Company") application.
- 16 Q. HOW DO YOU RESPOND TO CCL AND SACE WITNESS DAVIS' AND TASC
- 17 WITNESS BARNES' RECOMMENDATIONS THAT THE COMMISSION
- 18 REJECT THE COMPANY'S PROPOSAL TO USE SHARED SOLAR
- 19 SUBSCRIPTIONS THAT ARE LESS THAN 20 KILOWATTS ("KW") IN SIZE TO
- 20 MEET ACT 236'S REQUIREMENT THAT THE COMPANY INCENTIVIZE
- 21 CUSTOMERS TO PURCHASE OR LEASE FACILITIES WITH A NAMEPLATE
- 22 CAPACITY NO GREATER THAN 20KW?
- 23 A. The Company agrees that until customer participation and solar adoption rates are better
- 24 understood, the distributed energy resources that result from the Shared Solar Program

5	Q.	WITNESS DAVIS ASSERTS THAT SHARED SOLAR PROGRAM
5		renewable capacity 20 kW and less.
4		rates indicate that it may be unable to achieve the Act 236 requirements related to
3		kilowatts ("kW"). The Company may revisit this request in the future if customer adoption
2		customers to purchase or lease facilities with a nameplate capacity no greater than 20
1		enrollment will not count toward Act 236's requirement that the Company incentivize

- 6 Q. WITNESS DAVIS ASSERTS THAT SHARED SOLAR PROGRAM
  7 ENROLLMENTS SHOULD BE PORTABLE FOR CUSTOMERS. DO YOU
  8 AGREE?
- 9 A. Yes, I do. As stated on page 1 of the proposed Shared Solar Tariff, "if the customer moves and transfers electric service to another location within the Company's South Carolina service territory, the customer will be allowed to continue service under this Rider at the new location provided he continues his electric service under this rider."
- 13 WITNESS **DAVIS SOLAR** O. ASSERTS THAT SHARED PROGRAM 14 ENROLLMENTS SHOULD BE TRANSFERABLE BACK TO DEC OR TO 15 ANOTHER CUSTOMER WITHIN THE COMPANY'S SERVICE TERRITORY SO THAT THE "MONETARY LOSS TO PARTICIPANTS WHO DISCOUNTINUE 16 17 SERVICE UNDER THIS RIDER IS NOT OVERLY PUNITIVE AND DOES NOT 18 **DISCOURAGE PARTICIPATION." DO YOU AGREE?**
- 19 A. No, I do not. The Company projects that if a customer were to discontinue service or "exit
  20 the program" prior to Years 4-5 of the subscription, that customer would incur some net
  21 financial loss. That is, the energy credits that received in Years I through Year 3 essentially
  22 "pay off" the cost of the application (\$20) and the cost of initial capacity (\$100 per watt
  23 DC); by Years 4 or 5, the customer will be net cash flow positive. Given that there are no

i	termination fees for exiting the program and that the payback on the subscription is
2	generally swift, we believe that the proposed approach is reasonable and will not discourage
3	participation. Should experience prove otherwise, the Company is willing to examine
4	alternatives in subsequent iterations or modifications to the program.

- 5 WITNESS DAVIS ASSERTS THAT SHARED SOLAR PROJECTS SHOULD BE Q. 6 SITED IN COMMUNITIES THAT WILL BENEFIT FROM THEM. WHAT IS THE COMPANY'S PLAN FOR SITING ITS SHARED SOLAR FACILITIES? 7
- National experience suggests that visibility and participation are indeed linked. The Α. Company proposes to solicit proposals for Shared Solar facilities, each 1,000 kW in size or 10 less, located in communities throughout the Company's South Carolina retail service area, and proximate to potential subscribers. For example, the Company would prefer that its Shared Solar facilities were sited in areas visible to the general public and perhaps even within view of educational institutions, rather than in low-visibility, low-traffic areas. As with many other aspects of its proposed programs, the Company is willing to consider options upon implementation. However, I believe that creating unduly prescriptive locational constraints for our proposed Shared Solar is unnecessary at this time as it could delay and impair our ability to roll out the programs.
- WITNESS DAVIS FURTHER PROPOSES THAT DEC ALLOW THE INITIAL 18 Q. 19 SUBSCRIPTION CHARGES FOR THE SHARED SOLAR PROGRAM TO BE 20 PAID UP-FRONT OR OVER THE LENGTH OF THE SUBSCRIPTION TERM 21 AND THAT THE COMPANY WAIVE SOME OR ALL OF THE INITIAL SUBSCRIPTION CHARGE FOR LOW-INCOME CUSTOMERS. 22
- 23 Witness Davis proposes improving the attractiveness of the Shared Solar Program by A.

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1	lowering the cost of participation and/or providing customers with a "pay-as-you-go" or "o	on
2	bill financing" option. Both are good suggestions that the Company will consider in futu	are

3 iterations of the program should initial customer response be underwhelming.

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Q. CCL WITNESS DAVIS AND TASC WITNESS BARNES RECOMMEND THAT
THE COMPANY ELIMINATE THE CALENDAR YEAR CAPACITY
LIMITATION IN ITS SOLAR REBATE PROGRAM AND INSTEAD CONSIDER A
SCHEDULED STEP-DOWN APPROACH TO MODIFICATION OF ITS SOLAR
REBATE PROGRAM IN ORDER TO IMPROVE THE TRANSPARENCY AND
PREDICTABILITY OF THE PROGRAM. DO YOU AGREE?

Witnesses Davis and Barnes raise valid concerns on this issue and Company witness Merino speaks to DEC's position on their argument. However, in an effort to avoid growth disruptions related to the calendar year limit, the Company proposes to eliminate the calendar year limitation within its Solar Rebate tariffs and will instead propose to review, evaluate and propose a new Solar Rebate level when the aggregate capacity limit or "tranche" stated in the tariff is reach. The Company will make such proposals subject to the modification parameters proposed by the ORS, and will use reasonable efforts to allow for an uninterrupted transition from one Solar Rebate tranche to the next. Although an automatic step-down approach to the Solar Rebate was initially discussed, the Company ultimately decided that it would be more prudent to more closely monitor the rebate's effectiveness upon each successive tranche of capacity energized than to fix the rebate levels for the next half dozen years today, particularly given the swiftness with which installed cost of solar has dropped in years past and given the uncertainty in extension or expiry of the federal tax incentives for solar 2016.

1 Q. DOES THIS CONCLUDE YOUR PRE-FILED REBUTTAL TESTIMONY?
2 A. Yes, it does.

## BEFORE THE PUBLIC SERVICE COMMISSION OF SOUTH CAROLINA

### **DOCKET NO. 2015-55-E**

In the Matter of:	) )
Application of Duke Energy Carolinas, LLC to Establish a Distributed Energy Resource Program	nebuttal testimony of jose i. merino on behalf of duke energy carolinas, llc

- 1 Q. PLEASE STATE YOUR NAME AND BUSINESS ADDRESS.
- 2 A. My name is Jose I. Merino. My business address is 400 South Tryon, Charlotte, North
- 3 Carolina.
- 4 Q. BY WHOM ARE YOU EMPLOYED AND WHAT IS YOUR POSITION WITH
- 5 THE COMPANY?
- 6 A. I currently serve as Director of Renewable Analytics for Duke Energy Corporation
- 7 ("Duke Energy").
- 8 Q. DID YOU PREVIOUSLY CAUSE DIRECT TESTIMONY TO BE FILED IN THIS
- 9 DOCKET?
- 10 A. Yes, I did.
- 11 Q. WHAT IS THE PURPOSE OF YOUR REBUTTAL TESTIMONY?
- 12 A. The purpose of my rebuttal testimony is to respond to the testimony of Southern Alliance
- for Clean Energy ("SACE") and Coastal Conservation League ("CCL") witness John D.
- Wilson, CCL witness Hamilton Davis and The Alliance for Solar Choice witness Justin
- Barnes filed in this docket. Specifically, my testimony will address SACE and CCL
- witness Wilson's recommendation that the Public Service Commission of South Carolina
- 17 ("the Commission") require Duke Energy Carolinas, LLC ("DEC" or "the Company") to
- solicit bids for power purchase agreements ("PPAs") with terms of 20, 25 and 30 year
- terms in its proposed request for proposals ("RFP") for utility-scale renewable resources.
- 20 I also address CCL witness Davis' and TASC witness Barnes' recommendations related
- 21 to the Company's Solar Rebate program regarding rebate levels and CCL witness Davis'
- recommendation related to the Company's Shared Solar program regarding participation
- term. For the reasons set forth below, I believe the Commission should reject SACE and

1		CCL witness Wilson's recommendation and allow the Company to solicit bids with 10
2		year terms through its RFP. Further, I believe the Commission should allow the
3		Company to proceed as set forth within its Application regarding its Solar Rebate levels
4		and Shared Solar term.
5	Q.	SACE AND CCL WITNESS WILSON ALLEGES THAT LIMITING THE RFP

- SACE AND CCL WITNESS WILSON ALLEGES THAT LIMITING THE RFP

  SOLICITATION TO PPAS WITH 10 YEAR TERMS WILL LEAD TO THE

  COMPANY ACCEPT "UNNECESSARILY EXPENSIVE PRICES". DO YOU

  AGREE WITH THIS CONCLUSION?
- 9 A. I do not agree. The Company will make a selection based on criteria that includes the purchase power price as well as other contract attributes. The Company is not obligated to make a selection from the bids received through the proposed solicitation if it considers that the prices and terms included in the proposals are not in alignment with its distributed energy resource ("DER") program goals or in the best interest of its South Carolina retail customers.
- 15 Q. ARE LONGER TERM PPAS TO DEVELOPERS PREFERABLE FOR UTILITY

  16 CUSTOMERS?
- 17 A. No, they are not. If long-term PPAs are executed at a fixed price for the duration of the
  18 contract, utilities can be exposed to unnecessarily high costs if market prices decline in
  19 the future. Alternatively, if future market prices are higher than the executed PPA price, a
  20 longer-term PPA may prove advantageous for utilities and its customers. Unfortunately,
  21 it is very difficult to predict future energy costs with a high degree of accuracy; that is
  22 why the Company procures coal, natural gas and other fuels by relying on contracts
  23 which generally do not exceed 5 years.

With regard to the SC DER program, PPA's longer than 10 years will result in higher incremental costs relative to 10 year PPAs. I agree with Mr. Wilson that the cost per year may be lower for PPAs with longer tenor, but the total PPA cost or the sum of purchase power expenses incurred during the duration of the PPA will be higher. For example, if the utility enters into a 10 year purchase power contract for 87,600 MWH per year at \$100/MWH, the total Dollar for the term of the contract will be \$87,600,000 or \$8,760,000 per year. However, if the utility agrees to extend the length of the agreement by 5 years and sell at a lower price of \$90/MWH, the total cost will \$118,260,000 or \$7,884,000 per year. Even though the average annual cost decreased by 10% with the longer term PPA, the total cost increased by 35%. If this simple calculation is converted to present value or today's Dollars, the 10 year PPA at \$100/MWH would be 21% cheaper than a 15 year PPA at \$90/MWH, assuming no other variables change.

#### O. PLEASE DESCRIBE THE RISKS INHERENT IN LONGER TERM PPAS.

14 A. In addition to price there are other considerations when evaluating longer term purchase
15 agreements such as the seller's ability to perform its contract obligations, the seller's
16 financial position or other factors that may be adversely impacted in the future. Holding
17 other variables constant, both credit and performance risk have a positive relationship
18 with the contract's time to expiration.

## Q. ARE PPA TERMS LONGER THAN 10 YEARS NECESSARY IN THE MARKET TODAY?

A. No, we do not believe PPA terms longer than 10 years are necessary for projects to be financially viable in SC. As an example, Duke Energy Progress, Inc. and Darlington Solar, LLC ("Darlington PPA") recently executed a 10 year PPA for energy to be

delivered from a facility in Darlington, SC,. Although the actual pricing within the PPA
is confidential and market sensitive information, it bears noting that the Darlington PPA,
approved for filing by the Commission in Docket No. 2015-146-E, was entered into
pursuant to the Company's obligations under the Public Utility Regulatory Policy Act of
1978 ("PURPA"), which creates a ceiling for the cost to be paid by the utility at its
avoided cost. Further, developers entering into shorter term PPAs with the Company
have the option to renew or negotiate a new agreement at the expiration of the contract,
based on the Company's avoided costs at that time.

- 9 Q. PLEASE EXPLAIN WHY THE COMPANY CHOSE 10 YEARS AS THE
  10 DESIRED TERM FOR PPA BIDS IN THE PROPOSED RFP.
- 12 The Company selected 10 years as the maximum duration of PPA proposals for the
  12 following reasons: to maintain the total costs of the DER program at acceptable levels; to
  13 be consistent with the duration of other components of the DER program, such as the
  14 NEM incentive and the Shared Solar incentive; to avoid locking in a fixed price for a
  15 period longer than most fuel purchases and to mitigate performance risk; and to avoid
  16 perpetuating the cost recovery and associated bill impact to South Carolina customers.
- Q. ARE PPAS ENTERED INTO IN OTHER JURISDICTIONS PURSUANT TO
  STATE-SPECIFIC POLICY REQUIREMENTS RELEVANT TO THE
  COMPANY'S COMPLIANCE WITH ITS ACT 236 REQUIREMENTS?
- 20 A. Not necessarily. The PPAs executed in other jurisdictions may be governed by different regulations and policy constraints, their prices may set based on different economic assumptions and underlying required inputs, such as jurisdictional specific electric rates, and the budgets or funding set by state specific policy requirements will vary. Further,

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to implement a reasonable solution for its South Carolina customers, consistent goals and requirements of Act 236.  Q. DO YOU BELIEVE THE COMPANY'S APPROACH TO SOLICIT 10 PPAS EFFECTIVELY BALANCES RISK BETWEEN PROJECT DEVEL AND THE COMPANY'S CUSTOMERS?  A. Yes. Very simply, from our perspective, the longer the term for the PPA, the must that is shifted to the Company's retail customers. To limit long-term pricing rise customers, the Company's goal is to contract at terms no longer than necessary to reasonably-priced energy to meet the requirements of Act 236.  Q. WILL THE COMPANY EXECUTE PPAS THAT IT BELIEVES DO INCLUDE FAIR AND REASONABLE PRICES, REGARDLESS OF TERM A. No. The Company won't enter into PPAs if the cost is not competitive, independent the contract term, or if the other terms and conditions of the proposed agreen unreasonable.  Q. AND WOULD THE COMPANY ACQUIRE OR CONSTRUCT A FACILITY.	1		the fundamental cost of doing business in one state can, and often will, be very different
goals and requirements of Act 236.  Q. DO YOU BELIEVE THE COMPANY'S APPROACH TO SOLICIT 10 PPAS EFFECTIVELY BALANCES RISK BETWEEN PROJECT DEVEL AND THE COMPANY'S CUSTOMERS?  A. Yes. Very simply, from our perspective, the longer the term for the PPA, the m that is shifted to the Company's retail customers. To limit long-term pricing ri customers, the Company's goal is to contract at terms no longer than necessary to reasonably-priced energy to meet the requirements of Act 236.  Q. WILL THE COMPANY EXECUTE PPAS THAT IT BELIEVES DO INCLUDE FAIR AND REASONABLE PRICES, REGARDLESS OF TERM A. No. The Company won't enter into PPAs if the cost is not competitive, indeper the contract term, or if the other terms and conditions of the proposed agreen unreasonable.  Q. AND WOULD THE COMPANY ACQUIRE OR CONSTRUCT A FACILI COMPLY WITH ITS ACT 236 REQUIREMENTS IF THE COST WA	2		from the related costs in another. Through its proposals, the Company is simply seeking
DO YOU BELIEVE THE COMPANY'S APPROACH TO SOLICIT 10  PPAS EFFECTIVELY BALANCES RISK BETWEEN PROJECT DEVEL  AND THE COMPANY'S CUSTOMERS?  A. Yes. Very simply, from our perspective, the longer the term for the PPA, the ment that is shifted to the Company's retail customers. To limit long-term pricing ricustomers, the Company's goal is to contract at terms no longer than necessary to reasonably-priced energy to meet the requirements of Act 236.  Q. WILL THE COMPANY EXECUTE PPAS THAT IT BELIEVES DO INCLUDE FAIR AND REASONABLE PRICES, REGARDLESS OF TERM  A. No. The Company won't enter into PPAs if the cost is not competitive, independent the contract term, or if the other terms and conditions of the proposed agreen unreasonable.  Q. AND WOULD THE COMPANY ACQUIRE OR CONSTRUCT A FACILITY COMPLY WITH ITS ACT 236 REQUIREMENTS IF THE COST WAS	3		to implement a reasonable solution for its South Carolina customers, consistent with the
PPAS EFFECTIVELY BALANCES RISK BETWEEN PROJECT DEVEL AND THE COMPANY'S CUSTOMERS?  A. Yes. Very simply, from our perspective, the longer the term for the PPA, the ment that is shifted to the Company's retail customers. To limit long-term pricing riscustomers, the Company's goal is to contract at terms no longer than necessary to reasonably-priced energy to meet the requirements of Act 236.  Q. WILL THE COMPANY EXECUTE PPAS THAT IT BELIEVES DO INCLUDE FAIR AND REASONABLE PRICES, REGARDLESS OF TERM A. No. The Company won't enter into PPAs if the cost is not competitive, independent the contract term, or if the other terms and conditions of the proposed agreen unreasonable.  Q. AND WOULD THE COMPANY ACQUIRE OR CONSTRUCT A FACILIA COMPLY WITH ITS ACT 236 REQUIREMENTS IF THE COST WAS	4		goals and requirements of Act 236.
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reasonably-priced energy to meet the requirements of Act 236.  Q. WILL THE COMPANY EXECUTE PPAS THAT IT BELIEVES DO INCLUDE FAIR AND REASONABLE PRICES, REGARDLESS OF TERM  A. No. The Company won't enter into PPAs if the cost is not competitive, independent the contract term, or if the other terms and conditions of the proposed agreen unreasonable.  Q. AND WOULD THE COMPANY ACQUIRE OR CONSTRUCT A FACILIA COMPLY WITH ITS ACT 236 REQUIREMENTS IF THE COST WA	9		that is shifted to the Company's retail customers. To limit long-term pricing risk to its
12 Q. WILL THE COMPANY EXECUTE PPAS THAT IT BELIEVES DO 13 INCLUDE FAIR AND REASONABLE PRICES, REGARDLESS OF TERM 14 A. No. The Company won't enter into PPAs if the cost is not competitive, independent to the contract term, or if the other terms and conditions of the proposed agreen unreasonable. 17 Q. AND WOULD THE COMPANY ACQUIRE OR CONSTRUCT A FACILI COMPLY WITH ITS ACT 236 REQUIREMENTS IF THE COST WAS	10		customers, the Company's goal is to contract at terms no longer than necessary to procure
INCLUDE FAIR AND REASONABLE PRICES, REGARDLESS OF TERM  A. No. The Company won't enter into PPAs if the cost is not competitive, indeper  the contract term, or if the other terms and conditions of the proposed agreen  unreasonable.  AND WOULD THE COMPANY ACQUIRE OR CONSTRUCT A FACILI  COMPLY WITH ITS ACT 236 REQUIREMENTS IF THE COST WA	11		reasonably-priced energy to meet the requirements of Act 236.
<ul> <li>A. No. The Company won't enter into PPAs if the cost is not competitive, independent the contract term, or if the other terms and conditions of the proposed agreent unreasonable.</li> <li>Q. AND WOULD THE COMPANY ACQUIRE OR CONSTRUCT A FACILITY COMPLY WITH ITS ACT 236 REQUIREMENTS IF THE COST WAS</li> </ul>	12	Q.	WILL THE COMPANY EXECUTE PPAS THAT IT BELIEVES DO NOT
the contract term, or if the other terms and conditions of the proposed agreen unreasonable.  17 Q. AND WOULD THE COMPANY ACQUIRE OR CONSTRUCT A FACILI COMPLY WITH ITS ACT 236 REQUIREMENTS IF THE COST WA	13		INCLUDE FAIR AND REASONABLE PRICES, REGARDLESS OF TERM?
<ul> <li>unreasonable.</li> <li>Q. AND WOULD THE COMPANY ACQUIRE OR CONSTRUCT A FACILI</li> <li>COMPLY WITH ITS ACT 236 REQUIREMENTS IF THE COST WA</li> </ul>	14	A.	No. The Company won't enter into PPAs if the cost is not competitive, independent of
17 Q. AND WOULD THE COMPANY ACQUIRE OR CONSTRUCT A FACILI 18 COMPLY WITH ITS ACT 236 REQUIREMENTS IF THE COST WA	15		the contract term, or if the other terms and conditions of the proposed agreement are
18 COMPLY WITH ITS ACT 236 REQUIREMENTS IF THE COST WA	16		unreasonable.
	17	Q.	AND WOULD THE COMPANY ACQUIRE OR CONSTRUCT A FACILITY TO
19 REASONABLE?	18		COMPLY WITH ITS ACT 236 REQUIREMENTS IF THE COST WAS NOT
	19		REASONABLE?

No. The Company would not build or purchase a renewable energy generation facility to

comply with Act 236 if the cost was not reasonable or competitive with other options.

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1 Q	),	IN	SUM,	DO	YOU	<b>BELIEVE</b>	THE	<b>COMPANY'S</b>	<b>PROPOSED</b>	RFP
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- 2 SOLICITATION WILL YIELD REASONABLE RESULTS THAT WILL
- 3 BENEFIT ITS CUSTOMERS AND COMPLY WITH ACT 236?
- 4 A. Yes, I do.
- 5 Q. CCL AND SACE WITNESS DAVIS AND TASC WITNESS BARNES BOTH
- 6 ADVOCATE FOR AND PROPOSE A STEPDOWN INCENTIVE APPROACH
- 7 WHERE INCENTIVES WILL DECLINE BASED ON ACHIEVING CERTAIN
- 8 BENCHMARKS SUCH AS MW CAPACITY TARGETS AND BUDGET LEVELS,
- 9 TO ENHANCE THE TRANSPARENCY AND PREDICTABILITY OF THE
- 10 MARKET. DO YOU AGREE WITH THIS PROPOSAL?
- A. I agree with Mr. Davis and Mr. Barnes that a prescribed formula which sets the projected 11 12 incentive level as a function of budget availability, capacity penetration or technology costs could present enhanced transparency or predictability to the marketplace. However, 13 the Company believes that at this time, it is premature to assume predefined relationship 14 between incentives and market conditions for rebate scale down planning, without 15 learning more about how the market will react to the rebates that the Company proposed 16 to start. It is more prudent to discuss their proposals once more data is available to 17 18 validate the connection between incentives and renewable penetration in South Carolina. The Company will diligently monitor market conditions and perform an evaluation of 19 20 actual penetration vs. the projections used in its DER application, before presenting 21 recommendations for different incentives, products or both. The Company agrees with 22 Mr. Davis suggestion to establish a web-based tracking mechanism that can be used to 23 provide an update on potential benchmark variables.

1	Q.	MR. DAVIS ALSO RECOMMENDS TO EXTEND THE PERIOD OF SHALL	RED
2		SOLAR SUBSCRIPTIONS FROM 10 YEARS TO AT LEAST 20 YEARS.	DO
3		YOU AGREE WITH THIS RECOMMENDATION?	

No. In his testimony, Mr. Davis explains that solar systems are long term investments that have a projected life span of 20 or more years and that customer should have the option to subscribe to a Shared Solar program of similar duration. Mr. Davis also states that customers who sign up for longer term subscriptions can hedge against the risk of increasing retail rates. These points made by Mr. Davis fail to consider the totality of the factors that the Company included in its determination of the Shared Solar contract length. These factors principally include program budget constraints and the goal of minimizing the amount of cost that would need to be recovered beyond the period when DER program components expire. The economic advantage of the Shared Solar offer over the regular retail rate exists exclusively because the program is subsidized by the utility; extending the program period from 10 to 20 years also means that the subsidy has to be extended. In addition, the Company believes that over time, some customers are likely to move from their current location to a different one and it would be unreasonable for them to sign a 20 year or longer Shared Solar program.

With respect to witness Davis' point about the value of a 20 year hedge against increasing electric bills, I must note that retail rates are not the only component of the Company's Shared Solar offer. Other important inputs include the amount that customers are credited for the solar production, initial fees and subscription charges. If the Company were to consider options for Shared Solar that are longer than 10 years, the offer terms will likely be adjusted to account for different administrative costs, price risk

A.

1	and other factors to ensure that both customers and the company are protected against
2	adverse events that can occur as contract term increases. Thus, it is not realistic to assume

3 that extending the Shared Solar contract period automatically creates a positive price

4 hedge for customers.

- 5 Q. IS THE COMPANY OPEN TO CONSIDER DIFFERENT APPROACHES, LIKE
  6 THOSE PROPOSED BY CCL WITNESS DAVIS AND TASC WITNESS
- 7 BARNES, AS IT GATHERS ADDITIONAL MARKET AND CUSTOMER
- 8 PARTICIPATION DATA THROUGH THE IMPLEMENTATION OF ITS DER
- 9 CUSTOMER PROGRAMS?
- 10 A. Yes. We anticipate gaining significant insight and information into the South Carolina 11 market through the initial implementation of our programs. We will continue to evaluate 12 and revisit our initial assumptions and modeling and make any necessary adjustments to 13 attempt to achieve the goals of Act 236. At this time, however, we believe the approach

proposed within our Application is reasonable and appropriate to reach such goals.

DOES THIS COMPLETE YOUR REBUTTAL TESTIMONY?

16 A. Yes.

Q.

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